

IN THE CLAIMS:

Please add new claims 37-42 and amend the claims as follows:

1-4. (Cancelled)

5. (Currently Amended) A method, comprising:
determining at least one initial value of a DC signal of at least one orientation sensor coupled to at least one ocean bottom cable;
determining at least one current value of a DC signal of the at least one orientation sensor;
comparing the at least one initial value of the DC signal of the at least one orientation sensor to the at least one current value of the DC signal of the at least one orientation sensor; and
determining whether the at least one ocean bottom cable has moved more than an acceptable distance from an initial position based on the comparison; and if it is determined that the at least one ocean bottom cable has moved more than the acceptable distance, then repositioning the at least one ocean bottom cable to a desired position.

6. (Previously Presented) The method of claim 5, wherein the ocean bottom cable comprises a plurality of orientation sensors coupled thereto, and wherein comparing the at least one initial-value of the DC signal and the at least one current value of the DC signal comprises comparing a plurality of initial-values of the DC signal and a plurality of current values of the DC signal of the plurality of orientation sensors.

7-17. (Cancelled)

18. (Currently Amended) A system for carrying out a seismic survey, comprising:
at least one ocean bottom cable;
at least one seismic sensor coupled to the at least one ocean bottom cable;

at least one orientation sensor coupled to the at least one ocean bottom cable; and

a signal processing unit capable of:

determining at least one initial value of a DC signal of the at least one orientation sensor;

determining at least one current value of a DC signal of the at least one orientation sensor;

comparing the at least one initial value of the DC signal of the at least one orientation sensor to the at least one current value of the DC signal of the at least one orientation sensor; and

determining an AC signal in response to a change in the orientation or inclination of the at least one orientation sensor; and

determining whether the at least one ocean bottom cable has moved based on the comparison and the AC signal.

19-24. (Cancelled)

25. (Currently Amended) A system for carrying out a seismic survey, comprising:

at least one ocean bottom cable;

at least one seismic sensor coupled to the at least one ocean bottom cable;

at least one orientation sensor coupled to the at least one ocean bottom cable, wherein the at least one orientation sensor is at least one of a single and a dual axis accelerometer formed on an integrated circuit chip; and

a signal processing unit capable of:

determining at least one initial inclination of the at least one orientation sensor;

determining at least one current inclination of the at least one orientation sensor; and

determining whether the at least one ocean bottom cable has moved more than an acceptable distance using the at least one initial inclination and the at least one current inclination; and

if it is determined that the at least one ocean bottom cable has not moved more than the acceptable distance, then performing a seismic shooting operation.

26-29. (Cancelled)

30. (Currently Amended) An article comprising one or more machine-readable storage media containing instructions that when executed enable a processor to:

determine at least one initial value of a DC signal of at least one orientation sensor coupled to at least one ocean bottom cable when the at least one ocean bottom cable is at rest;

determine an AC signal in response to a change in the orientation or inclination of the at least one ocean bottom cable;

determine at least one current value of a DC signal of the at least one orientation sensor when the at least one ocean bottom cable is at rest;

compare the at least one initial value of the DC signal of the at least one orientation sensor to the at least one current value of the DC signal of the at least one orientation sensor; and

determine whether the at least one ocean bottom cable has moved based on the comparison and the AC signal.

31-34. (Cancelled)

35. (Currently Amended) An apparatus, comprising:

means for determining at least one initial value of a DC signal of at least one orientation sensor coupled to at least one ocean bottom cable;

means for determining at least one current value of a DC signal of the at least one orientation sensor;

means for comparing the at least one initial value of the DC signal of the at least one orientation sensor to the at least one current value of the DC signal of the at least one orientation sensor; and

means for determining whether the at least one ocean bottom cable has moved based on the comparison;

means for repositioning the at least one ocean bottom cable to a desired position if it is determined that the at least one ocean bottom cable has moved; and

means for performing a seismic shooting operation if it is determined that the at least one ocean bottom cable has not moved.

36. (Cancelled)

37. (New) The method of claim 5, wherein the at least one initial value and the at least one current value of the DC signal of the at least one orientation sensor are determined when the at least one orientation sensor is at rest.

38. (New) The method of claim 5, further comprising determining an AC signal in response to a change in the orientation or inclination of the at least one orientation sensor.

39. (New) The method of claim 38, wherein the AC signal indicates that the at least one orientation sensor has moved.

40. (New) The method of claim 38, wherein determining whether the at least one ocean bottom cable has moved more than the acceptable distance comprises determining whether the at least one ocean bottom cable has moved more than the acceptable distance using the AC signal, the at least one initial value of the DC signal and the at least one current value of the DC signal.

41. (New) The method of claim 5, further comprising:

if it is determined that the at least one ocean bottom cable has not moved more than the acceptable distance, then performing a seismic shooting operation.

42. (New) The method of claim 5, wherein the desired position is substantially the same as the initial position.